

Figure 3

Chrom	Gene	၁၅%	Probe Oligo Sequence	SEQ ID NO	Invader Oligo Sequence	SEQ ID NO
Т	Γ	¥	ACGGACGCGGAGGGAACCCTGTGACAT		ICCATCCAGGGAAGAGTGGCCTGTTT	100
	ACTA1	Ą			CCATCCAGGGAAGAGTGGCCTGTTT	101
	ACTA1	¥	ACGGACGCGGAGGGAACCCTGTGACATTT		SICCATCCAGGGAAGAGTGGCCTGTTT	102
_	ACTA1	Ϋ́	<u>ACGGACGCGGAGGGAACCCTGTGACATTTC</u>	4	4 CCATCCAGGGAAGAGTGGCCTGTTT	<u>ද</u>
	ACTA1	¥	<u>ACGGACGCGGAGGTGGCCTGTTAGGAAC</u>	5	CGTTGGCACCCCATCCAGGGAAGAT	ই
	ACTA1	<b>54%</b>	<u>ACGGACGCGGAGCCCCGCAGTCACT</u>	9	GGGCGCTGAGCTCCAGCCAT	<del>1</del> 05
_	ACTA1	28%	<u>ACGGACGCGGAG</u> TGGAGGTGGAGTGTG	_	7 TTCGTCGTCGTGAGAGTCGCGTGCC	
	ACTA1	63%	ACGGACGCGGACGCGATCTCACCGA	æ	8 GCGCCTGGACCTGGCGGCT	107
	ACTA1	62%	<u>ACGGACGCGAGGCCATTGTCGCACA</u>	6	9 GCCGGCTTTCACCAGGCCGGAT	108
	HIST2H2BE	28%	<u>ACGGACGCGGAGGGTGACCGGACACA</u>	2	10 GGCCCCATCGCACGCAGAACTT	100
	HIST2H2BE	26%	<u>ACGGACGCGGAGCTGCGTGACAGCTC</u>	1	11/ACAATTCAGCCCGGGTTCCGCAAACAA	110
	SV2A	29%	<u>ACGGACGCGGACCAGGCCAGCTGAG</u>	12	2 CAGGGCCAGAGGTGCCAAGGGG	111
	S S	28%	<u>ACGGACGCGGAGCTTCCCTGCTGGCA</u>	13	13 TCAGCTCTGTCCTTGGCGGGACAGTCC	112
	DSCR8		CGCGCCGAGGCAAGAATTCTCATGTCTCAG	4	14 CACTGCAGCCTCCCAGTTT	113
	DSCR6	%09	CGCGCCGAGGCTCGACTCACGGCA	15	5 CCCAGGCTGGAATGCAATGGTGCGATT	114
	DSCR8	25	<u>CGCGCCGAGGCCGTGATTGAACCACTG</u>	16	6 ACTGGGAGGTGGAGGCTGCAGTGATT	115
	DSCR6	88	CGCGCCGAGGCTCCAGGTGTCTGGAT	17	17 GGCCTTCCAGTTCTGGTCAGCTCAGCATT	116
_	DSCR1	20	CGCGCCGAGGCAGTGAGCTCAGGAGA	18	18 GGTTCTGTCTGTGCCAAGGGCAGGTTGATT	117
	AML1	28%	CGCGCCGAGCCCACCTGTGCGA	20	20 GCCTCAGTGGAGAGAGGTGGTT	119
_	AML1	26%	CGCGCCGAGGCCCTCTCTGCAGAACT	21	21/TGGACGTGCCAGCGCATGACAAT	120
	AML1	<b>24%</b>	<u>CGCGCCGAGG</u> CCTACCACAGAGCCA	22	CTTCACAAACCCACCGCAAGTCGCCAT	121
	DSCR9	21%	<u>CGCGCCGAGG</u> GAGCAGTCTGTAACGTG	23	CTCCCCACCGTTCCATCCCAGGCT	122
_	DSCR9	21%	CGCCCCGAGGAGGCGAGCAGTCTG	24	GCACCTCCCCACCGTTCCATCCCT	123
	LICAM	28%	CGCCCCGAGCCTGAGCAACGTGC	25	25 CGGATTCAGCGTGGCGCCCTGATT	124
	L1CAM	28%	CGCGCCGAGGCCTGAGCAACGTGCA	26	26 CGGATTCAGCGTGGCGCCCTGATT	125
	L1CAM	28%	<u>CGCGCCGAGC</u> CATGCAGTGCAGCAG	27	CGGATTCAGCGTGGCGCCCTGATCT	<del>1</del> 36
	L1CAM	28%	<u>CGCGCCGAGG</u> GATCCTGAGCAACGTG	28	28 CCGGATTCAGCGTGGCGCCCTT	127
	L1CAM	28%	<u>CGCGCCGAGG</u> GAGCAACGTGCAGC	29	29 GATT CAGC GTG GCC CCT GATC CTT	128
	LICAM	28%	CGCGCCGAGGCTGCAGTGA	30	CCGGATTCAGCGTGGCGCCCTT	<u>\$</u>
_	PDCD8	25%	CGCGCCGAGGCTACAAGCACGCTC	3	31 CAGATTTGGTGGCTTCCGGGTAAATGCAGAT	130
	PPEF1	23%	CGCGCCGAGCGGTACCAGTTCTGGA	32	32/TGTCTGGCCTTCAGTCGAGCTTTGTAACCTT	131
	SRY	22%	CGCCCGAGGCTCTGCAGCGAAGTG	8	33 GCTTCCCGCAGATCCCGCTTCGGTAT	132
	EIF1AY	26%	CGCGCCGAGGCTCTAAGAGCCGACTGA	ষ্ঠ	34 GACCTCTTCCGACTCCTTTCTGGCGGTTACTAT	<u>ਲ</u>
	GATA6	<b>54%</b>	CGCGCCGAGGCGCGTTTCTGCG	35	35 CACAAGCATTGCACACGGGTTCACCCTT	<u>포</u>
	SERPINB2	21%	CCCCCCAGCCAGTTCTCCCTGTCA	36	36 CTGCCACAACTGTGGGCCTCCATGTT	135
_	DLEU1	21%	CGCGCGAGGTTCTGCGCATGTGC	37	37 AGGGAGAGCCGTGCACCACGATGAC	8
	ABCC4	26%	CGCGCGAGGAGGAGCACGTAGGTG	82	38 CGGCTGCTGATCACACTGCCGT	137
	POU4F1	<b>65</b> %	CGCCCGAGCCCATCTGCAGGTTCG	ဇ္ဇ	39 CGTGGGCTCACTCAGCCAGAGCAT	138
	POU4F1	65%	CGCGCCGAGGCTCCAGCTCCGAGG	40	40 CTGAGCACAAGTACCCGTCGCTGCAT	139
-	POU4F1	63%	CGCGCGAGGCCGAGAACTGGAC	41	41 CCTCGTCCGAGAAGATCGCCGCCATCT	140
_	POU4F1	% %	CGCGCCGAGGCCATAGGCCTCTCA	42	42 CCACTCACTTCCCGGGATTGGAGGGGAT	141

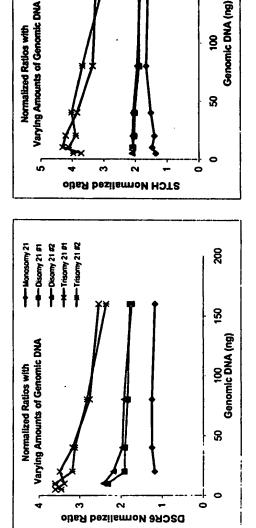
142	? ;	3	145	146	147	148	970	7	2	151	152	इ	₹ 2	155	156 26	157	<u>ჯ</u>	<del>1</del>	<del>5</del>	161	졄	ই	\$	<del>3</del>	166	167	<u>\$</u>	<u>\$</u>	170	171	172	173	174	175	176	171	178	179	8	181	182	<u>ක</u> ද	\$	<del>ह</del>
43/ACTACCCACCGGCTCATGGTCTCCTAGACT	44 GGCCC11 GIC1 GAAGCCICCIIGGGAAI	45 ACAGTGCTGGCTAGTGACGGCAGCTT	46 GTGCCCTCTCAGCCATTCCTGGCC	47/TGGACGGACACATTTGAGCCTGTCCAT	48 CGAAGAGGTGACTTCGACCGAGCTCTCCAT	49 CGTTAGAGCCTGTGCACTGGACCTGCTTT		SOCICCAGICAGGCCICCAGCI	51 GGCCACCGCIGCACGTICIGICII	52/TGGCCAACTTCATTCAGTCCCAGGGCATT	53 TGGCCAACTTCATTCAGTCCCAGGGCATT	54 GTGACTGGTCCACCTTCAGGGAGCTT	55 GTTCACCCTGGGCCTCAGCCCAT	56 CTGCCTCTGCTGCCGGCCAACT	57 GAGGCGGAACGGCTCACTCCAGCT	58 GAGGCGGAACGCTCACTCCAGCT	59 GGGTGACTCTCCTTCTGCCACAGTGGCT	60 TGTCCCCAGTCATTTCCCAAGAGAACACTCTCT	61 GCACCCAGAGTAGGGGTGGAGTATACCCTTT	62 GTCCCCTCGGCTCCTAATCTCTTCTCAAAACTCAGC	63 TCGGCATCCCTAGCACATGCCTCTT	64 GCACAGTTCCCAGTACAGAGACCCGGAT	65 GCTCCTGCTGTGCAGAGCGCACT	66 GCTCCTGCTGTGCAGAGCGCACT	67/TGCACCCGGACGCCAACTCCTTCT	68 GCCACGATTGACTTCTACGACGATGAGTCTACTGAGTT	69 CCGTTCCATCCCAGGCGAGCAGTT	70 AAGTGCGCTTGCAGCCATCCTGGATT	71 GTGGAAGGGTTTGTCTTGTGCCCAGGCT	72 GTGGAAGGGTTTGTCTTGTGCCCAGGCT	73 TGGCCGAGCTCCACCGTGTCAT	74 GGAGAAGAGGCGAAATCAGGAGGATGATGGAAT	75/ACCAGAGCGAGGTGAAGCTCAGCGTT	76 TCCTGGTACCTGCACCTGCTCAAT	77 CGCTGCTTGAAGGCGTTTGCATGGTCT	78 TCCATTTTGCCAGGCGCTTGTCCATCT	79 TCCATTTTGCCAGGCGCTTGTCCATCT	80 ACCACCTCATCACGGAGAACTTCCCGCC	81 GCCTCTGCACCTCAGCAGGGATGCT	82 CCATGACTGCAGTTCCCGCCACT	83 CTCCTTTCTTCCCCCAGATGTCTGTGAACACAT	84 TGGCCTCCAGCTGGCATCTTGACCTT	85 CCGCACCGCGTTCACGCAGTTTCT	86 CTGGTGATCATATGCCCCCAAGGAGCTTGATCT
<u>CGCGCCGAGG</u> CACTGTCACTGCAGC	CGCGCGAGGCIGCACICIGAGGCA	<u>cececcaae</u> ccactcctectcaa	CGCGCCGAGGTCCGTGGTAGCAGAA	CGCGCCGAGGCTGGATCTGTGTGG	CGCGCCGAGGGTGGAGACCAGAGTCA	CGCGCCGAGCCACACACACACACACACACACACACACAC		CGCGCCGAGGCAIGCIIICGGAGACIC	CGCGCCGAGGCTGGTGCATGTC	CGCCCCGAGGCAGCTCCCTGAAGGT	CGCGCCGAGGCAGCTCCCTGAAGGTG	CGCGCCGAGGGATGCCCTGGGACT	CGCGCCGAGGCCTTCCGTGCTGGA	CGCGCCGAGGAGCTTCAACCGCAAC	CGCGCCGAGCCATGCAGTGCAGCA	CGCGCCGAGGCATGCAGTGCAGCAG	CGCGCCGAGGCTGCGTAGCTCCCA	CGCGCCGAGGACGCCTGGATTATTCTG	CGCGCCGAGGCCCATGTGTTAGTGAAAATG	CGCGCCGAGGTAGCTCAGGTTCTCTGG	CGCGCCGAGGCCAAGAGGGCTGTG	CGCCCCGAGGCAGGTGGCTGTTTCTC	CGCGCCGAGGCTGCCTTACCAGTGTC	CGCGCCGAGGCTGCCTTACCAGTGTCC	CGCCCCGAGGGACATGCTGAGAAACCT	CGCGCCGAGGCTGCTTCCGAAGCTG	CGCGCCGAGGCTGTAACGTGGTGCAG	CGCGCCGAGGGTCAACTGGCCACAG	CGCGCGAGGCTTGCGGTCATGCAA	CGCCCGAGGCTTGCGGTCATGCAAG	CGCGCCGAGGCCATTTCCAGGTCC	CGCGCCGAGGETTGCTGCTGCAGAT	CGCCCCGAGGCTTGAGCAGTGGCTG	CGCGCCGAGGGACGCTGAGCTTCAC	<u>CGCGCCGAGG</u> CATGGCTCATGGACC	CGCGCCGAGGCGTCTGCGCACCT	CGCGCCGAGGCGTCTGCGCCACCTC	CGCGCCGAGGTGAAGCTCTGCAGGA	CGCCCGAGGGTAGTGTCCTGGCTCG	CGCGCCGAGGCGGAAGATCTCAGTGCT	CGCGCCGAGGGATCCTGGGACCTCC	CGCGCCGAGGCAGCATCATGAGAGTCC		CGCCCCGAGGCAATGGTGAGGGAAGTC
57%	አ አ	<u>%</u>	51%	25%	895	288	3 8	26%	25%	26%	26%	26%	%09	62%	28%	29%	21%	48%	55%	53%	29%	29%	<b>5</b> 8	<b>%</b>	%09	57%	28%	22%	%95	%99	29%	54%	<u>8</u>	8	58%	21%	21%	21%	63%	29%	53%	26%	62%	25%
PCDH9	E COM	PCORB	PCDH9	FLJ23403	KIAAN222	C DN17	100000	MGC33285	PCP4	PFKFB1	PFKFB1	PFKFB1	ZNF157	FLJ22843	DUSP21	DUSP21	MGC33889	PRKY	PRKY	PRKY	TMSB4Y	TMSB4Y	NRIP1	NRIP1	HLCS	DSCR6	DSCR9	DSCR3	DSCR4	DSCR4	DSCR10	CN2	HLCS	HLCS	HLCS	DSCR9	DSCR9	DSCR3	DSCR6	MTMR8	MGC23947	FLJ21174	ESX1L	ZNF157
£ :	2	13	5	8	4	5 2	3 6	7	7	×	×	×	×	×	×	×	×	>	>	>	>	<b>&gt;</b>	21	21	2	77	21	21	77	7	7	18	7	7	7	7	2	7	77	×	×	×	×	×

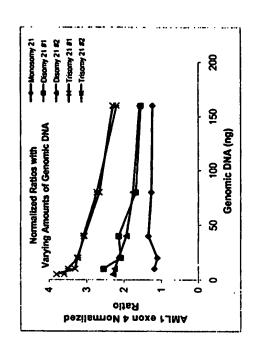
187 187 188	189	<u>\$</u>	191	192	193	ই	<del>1</del> 85	<del>8</del>	197	<del>8</del>	218	8	22	22	8	22	230
87 CTGCACCTCATCCGAGGACGTGGCC 88 GGTGACTCTCTGCCACAGTGGCCC 89 CTCCCCACCGTTCCATCCCAGGCT	90 GCACCTCCCCACCGTTCCATCCCT	91 GTCTGCGCACCTCCCCACCGTTT	92 CGTCTGCGCACCTCCCCACCGC	93 GAAGTGCAACTGGACAACAGGTTGTACAGGGATT	94 GGTACTCTGCAGCGAAGTGCAACTGGACAACT	95 TGCTGCCGAAGAATTGCAGTTTGCTTCCCT	96 GAAGAATTGCAGTTTGCTTCCCGCAGATCCCT	97 CGCCCTGCTTATTGGCATCTGTGGCAC	98 GCTTGAAGGTGACACAGTGACACGGGAT	99 GCAAAGTAAGGAGTCGCATCCCCTGCCTCT	217 GCCTATGGTCTCCACAAGGCTGACGTCTTT	219 GAGGGCCAAGAGCCTCCATCAATCCCTT	221 CGACTCTGGTACGCAGCTGCCTCGTT	223 TCCACCAGCCAGTCCACCAGAATCGTT	225 GTCTGTTCTGAGAGGGAAACTGCAGCTT	227 GCTAGGCCGCCTTCATCCGCCC	229 GAACTCCCAGGACAGACCTACGATGCCACT
CGCGCCGAGGTGAAGCCTGGTCACT CGCGCCGAGGTGCGTAGCTCCCAG CGCGCCGAGGGAGCAGTCTGTAACGTG	9009090	CGCGCCGAGGCCATCCCAGGCGA	CGCCCCGAGGTTCCATCCCAGGCG	CGCGCCGAGGGACTGTACGAAAGCCAC	CGCCCCGAGGGTTGTACAGGGATGA	CGCGCCGAGGCCAGATCCCGCTTC	CGCGCCGAGGCCTTCGGTACTCTGC	CGCCCGAGGTGAAGCAGGTCCAGT	CGCGCCGAGGCCATGGCTCTGCAC	CGCGCCGAGGCCAGTCAGGCCTCC	CGCCCGAGGCCACGTCTTGGTGATAG	CGCCCCGAGGCCTTGGATAGCCACTC	CGCGCCGAGGCCAGTGCTCCGGA	CGCGCCGAGGCGCATGCCTTCC	CGCGCGAGGCGTAGGAACAGCAGC	၁၁၁၅၁၅၁	<u>CGCGCCGAGG</u> CCAGCAGCC
57% 62% 57%	57%	21%	21%	22%	22%	26%	<b>%</b>	29%	26%	57%	8	53%	26%	55%	49%	52%	58%
PCTK1 MGC33889 DSCR9	DSCR9	DSCR9	DSCR9	SRY	SRY	SRY	SRY	CLDN17	DSCR10	MGC33295	STCH	STCH	AR	CCNA1	CCNA1	ING1	ADAMTS5
×××	7	12	21	>	>	>	>	77	2	2	77	7	×	13	13	13	21

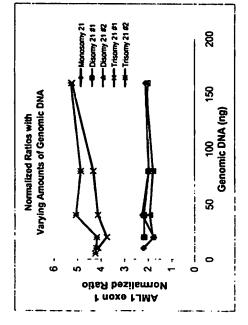
SEQ ID NO:199 SEQ ID NO:200

Fam-TCT-228-AGCCGGTTTTCCGGCTGAGACCTCGGCGCG-hex Red-TCT-228-TCGGCCTTTTGGCCGAGAGACTCCGCGTCCGT-hex

FAM FRET cassette RED FRET cassette







8

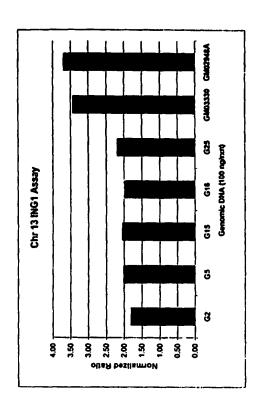
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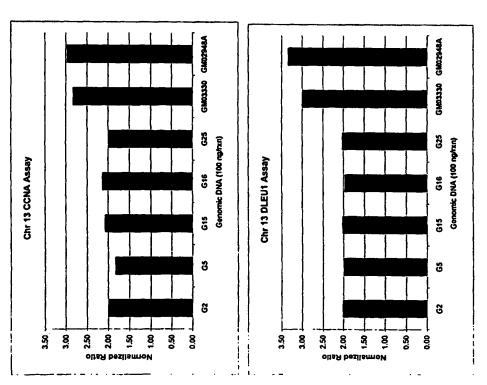
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ß

Genomic DNA (ng)

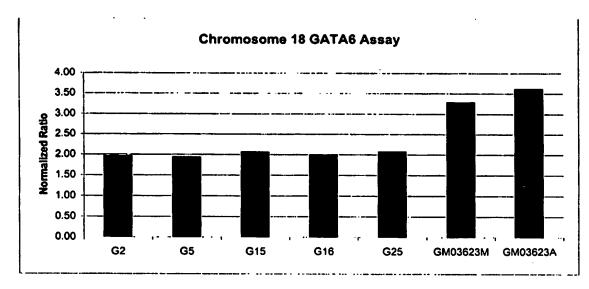
FIGURE 5

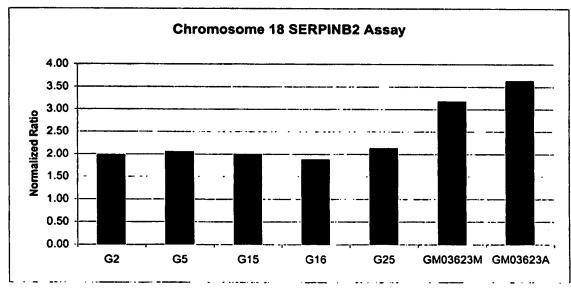


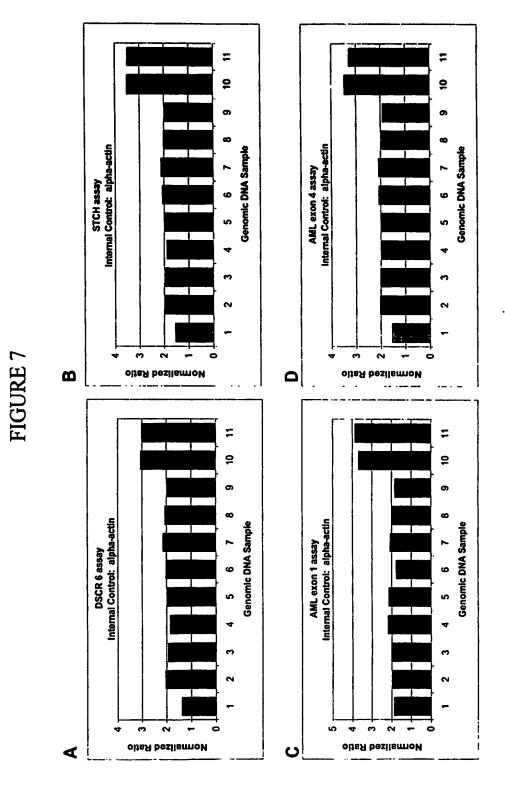


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## FIGURE 6

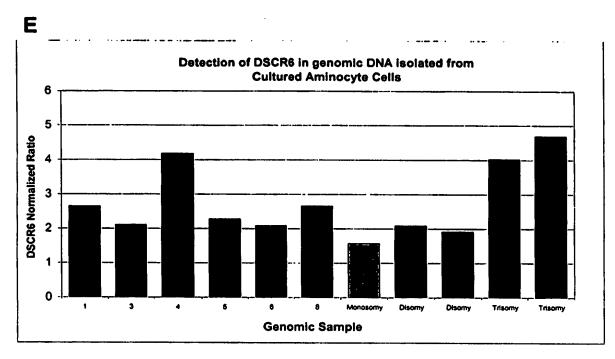






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## FIGURE 7 (continued)



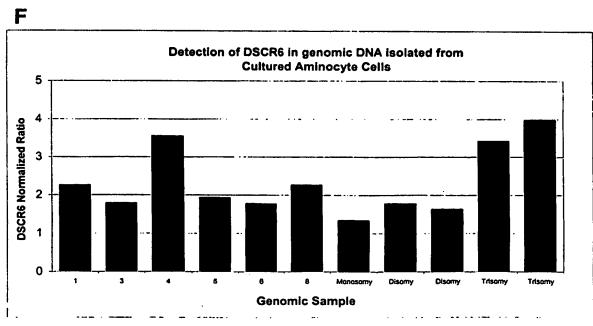
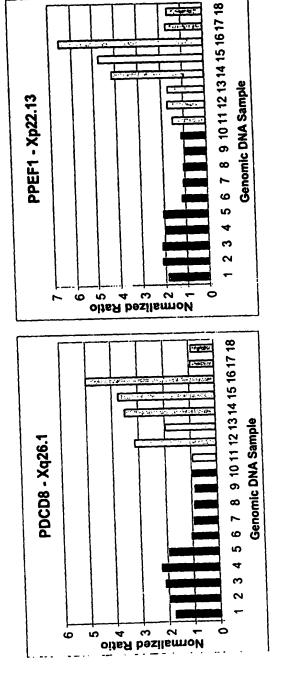


FIGURE 8



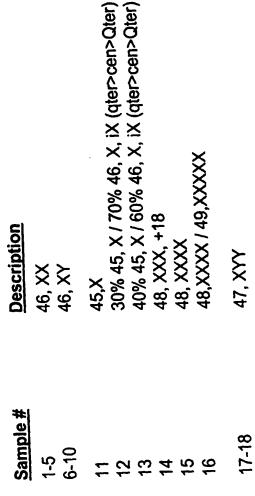
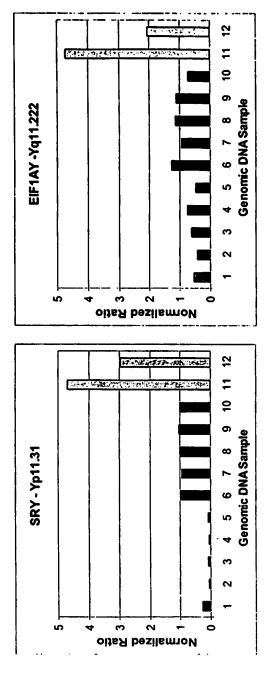


FIGURE 9



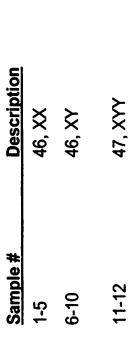
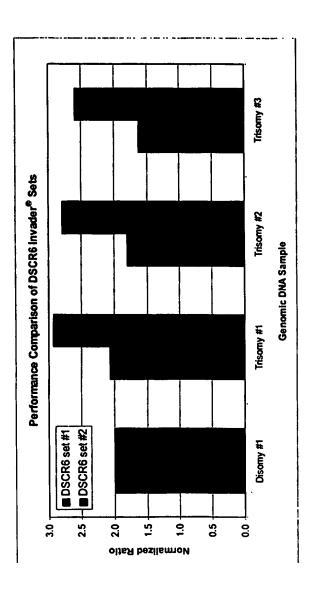


FIGURE 10



Trisomy #1: Coriell AG13429

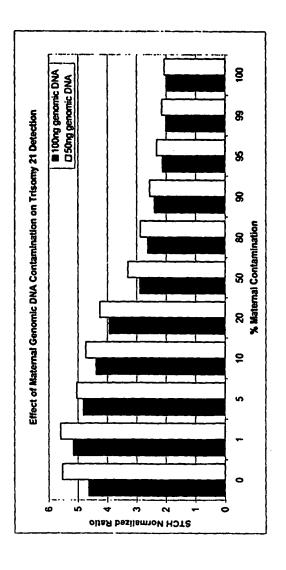
Trisomy #2: Coriell AG09394

Trisomy #3: Coriell AG10098

-all genomic DNA's were prepped using the Gentra Autopure Prep

## FIGURE 114

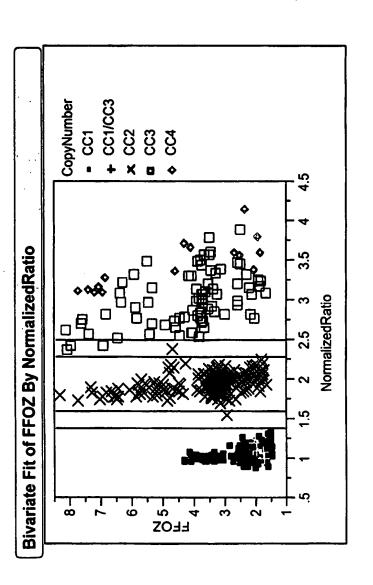
				۱			١				I				ı	ŀ	l	l	l		i						_
% Maternal Contamination	ē					0	-	s	2	8	S	8	8	જ	8	8	۰	-	S	`` ₽	R		1	•	- 1	1	
0	28 85	8	8 2	S# 05			-	s	10	8	25	8	8	8		8		0.5	2.5					•	-		_
				0	88	8		8	8	8	8	R	5	\$	-	0	8	49.5 47		45	40 2	23	10 5	5 2.5	0.5	°	_
Sid 205	7	8	2	14		1	ļ۶	8	25 25	2	8	8	8	1	ı		1		ł	"	ľ	"	٠,			S	_
							174	1157	1097	1048	8	805	285	355	22	713	28	792 8:	821 77	TT TZ	722 627		8 541		497		_
Av 220	449	482	8	\$		1066	159	1127	1127	1085	98	787		75.				8 7			52 633		•				
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Net Signal	8		•			846		907	200	88	730	2	88	ş	518	519	552 5	574 5	592 5	573	532 413	S S	32	13	- 1	- 1	73
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% Maternal Contamination	<u>ء</u>					0	-	\$	9	8	S	88	8	95	8	100	0	-	5	10 2	20	20	8	8	8	Š	_
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	-	0	0	0	8	\$	8	95	8	8	ß	8	2	s	-	0	8	49.5 47	47.5	45	40 2	23	10 5	5.25	0.5		-
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Av 111	8	8	•••	328	88		437	<b>\$</b>	<del>2</del> 8	Š	38	497		58	573	21		8 8	R R	<b>8</b>		χ Σ			ž		
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2%	*	<b>*</b>	*	×,	_	ጀ	క	≥	ž	Ķ	3%	ž	8%	8	3%	<del>*</del>	3% 3	3%	1% 3	3% 3%	38	× 2%	- 1	8	ž	ह	
Signal/Blknd	271	3.17	"	1''	3.47	Ľ	ı''	4.05	4.35	4.56		4.50		5.08	5.18 5	5.22 2	••	••			••	2.98	3.08	292	3.10		
Net Signal	198				273		327	88	371					451	462		179 1	184 2	211 217	17 224	22	5 219	022 6	214	ä	8	_
Ratio	0.59	1	l٩	ŀ	<u> </u>		<u>-</u>	1.35	1.23			0.73		0.59	0.56	0.56		1.57	1.41 1.33	33 1.19	19 0.92	0.80	D 0.72	90	9	93.	
Am 0.56																						,	•				_
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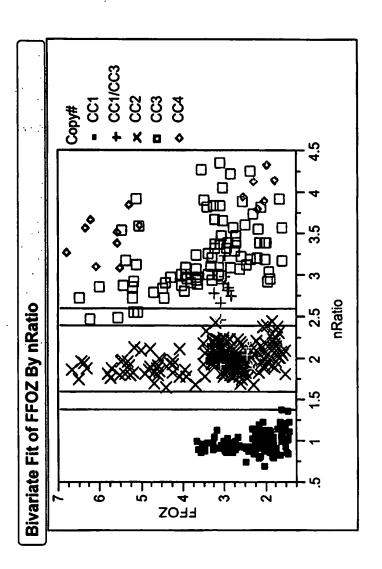
Chrom	Gene	Accession # Cytoband	Cytoband	Target Sequence	SEQ ID NO:
-	alpha actin (ACTA1)	M20543	1942.13	1942.13 (ATGTCACAGGGTTCC[]AACAGGCCACTCTTCCCTGGATGG)	203
-	HISTZH2B E	NM 003528	1921.2	GTATCCACAGGA(GGCCCCATCGCACGGCAGAACT[G]GTGACCGGACACA JAAAGCTGCTGCCAAGCGTCATACAGAGCTGTCACGCAGT	204
51	DLEU1	NM_005887		G(GCACATGCGCAGARICATCGTGGTGCACGGCTCTCCCT)TTGCTTCTT	205
51	РСОНЭ	NM_020403	13921.33	NM 020403 13q21.33 ACTGT)CACTTGGCAGGAGTQGJAGCTGCCGTCACTAGCCAGC	206
81	FLJ23403	NM_022068	18p11.22		202
×	PFKFB1	NM_002625	Xp11.21	ATGGTCCTCTTCATGTGACTGGTCCACACCCTTCAGGGAGCTBJATGCCC  TGGGACTGAATGAAGTTGGCCAJGGGGATAGGCA	208
>	PRKY	NM 002760	Yp11.2	CTCCTTCT(GCACCCAGAGTAGGGGTGGAGTATACCCTTB)CCATGTGTT AGTGAAAATG)TGTGCAGTGAGAAGCCAGTTGGGTCCCCTCGGC	508
21	NRIP1	NM_003489	21q11.2	GGCTCCGATTTAAAGTCTTCG(GACACTGGTAAGGCADJGTGCGCTTCTC TGCACAGCAGCAGCACTACCCAAGAATGGGGCACTCTTAGCAT	210
21	HLCS	NM_000411	21922.13	GAGGATG(AGGTTTCTCAGCATGTC)GAAGGAGTTGCCGTCCGGGTGCA) NM 000411 21q22.13 CAGTCACAACCTCGCCGCCTCCTGGTGAACCTGGAGGAAGCCA	211
18	CN2	NM_018235	18q22.3	TGGCC(GGAGAGAGAGGCGAAATCAGGAGGATGATGGAAGJTTGCTGC 18Q22.3 TGCAGAT)GTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGTGATA	212
×	MTMR8	NM_017677	Xq11.2	CCTTGGGTACCGTAATATGAT(CCATGACTGCAGTTCCCGCCAC[C]GGAA GATCTCAGTGCTCCAGATGCCGCCGCCACCGGTCTAGCCG	213
×	FLJ21174	NM_024863		GAAGAGTTCAGCTGCTAGGTTCTTATTTTG(GGACTCTCATGATGCTG)AG	214
×	PCTK1	NM_033018	Хр11.3	GAGATTGTGCACGAGGCTTGAAGATGGGGTCTGATGGGGGAG(AGTGAC) CAGGCTTCJAJGCCACGTCCTCGGATGAGGTGCAGJTCTCCAGTGA	215
>	SRY	NM 003140		TCATCCCTGTACAACCTGTTGTCCAGTTGCACTTCGCT(GCAGAGTACCG	216

Chromosome Xp Invader Assay:PFKFB1+PCTK1 -Varying DNA Levels Figure 13A



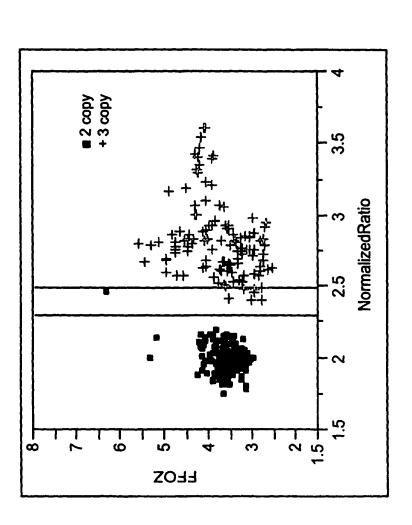
- 3 30 ng of DNA per reaction
- Equivocol zones: 1.4 -1.6; 2.3 2.5
- N=637 samples, 517 normal, 120 aneuploid
   No call rate 1.9% (7 samples < 1.4 FOZ, 5 equivocal samples)</li>
- Miscall rate 0%

Chromosome Xq Invader Assay:MTMR8+FLJ21174 -Varying DNA Levels Figure 13B



- 3 30 ng of DNA per reaction
- Equivocol zones: 1.4 -1.6; 2.4 2.6
- N=638 samples, 518 normal, 120 aneuploid
- No call rate 3.3% (15 samples < 1.4 FOZ, 6 equivocal samples)
- Miscall rate 0%

Figure 14. Chromosome 18 Invader® Assay - Sample Mixtures



Trisomy 18 / Disomy sample mixtures

10 ng of DNA per reaction

• Equivocal zone: 2.3 – 2.5

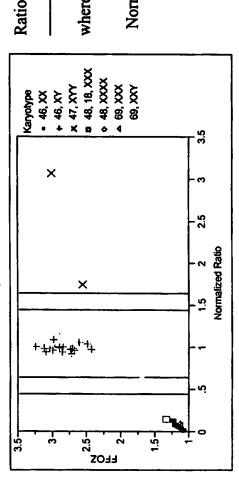
N=315 samples, 198 disomy, 117 trisomy (+18 with 0%, 10% and 20% disomy contamination)

No call rate 2.9%

Miscall rate 0%

## Figure 15: Analysis of Triploidy Samples (69, XXY)

Normalized Ratio Analysis

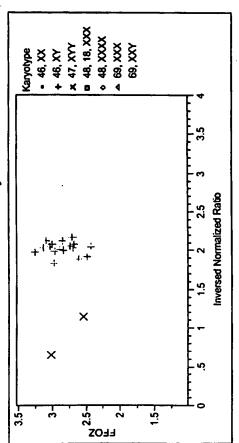


Ratio = ( (Net chromosome specific FOZ) )
(Net internal control FOZ)

where Net FOZ = FOZ - 1

Normalized Ratio= (Ratio of unknown sample) X (1)
(Ratio of male control sample)





Inversed Ratio = ( (Net internal control FOZ) (Net chromosome specific FOZ)

where Net FOZ = FOZ - 1

Inversed Normalized Ratio=

(Ratio of unknown sample) X (2)
(Ratio of male control sample)

Note: Samples not containing a Y chr. not shown on graph due to high inversed normalized ratios (>10)